

**COMBINATION THERAPY USING NUCLEIC ACIDS AND  
RADIO THERAPY**

**ABSTRACT OF THE DISCLOSURE**

The present invention relates to methods for increasing the efficiency of transformation of cycling cells, the methods comprising synchronizing cells at a first stage of the cell cycle, and transforming the cells at a second stage of the cell cycle within about one  
5 cell cycle of the first stage with a genetically engineered nucleic acid that encodes a desired gene product. The invention further relates to cancer therapy and, in particular, to methods of efficiently transforming cancer cells with nucleic acids that encode gene products that inhibit the growth of cancer cells.